Software Release Notice

System: WGS   **Release:** WGS 3.1.8
Date: June 15, 2001

Modification Description:

This is an Upgrade for the Wallops Ground Station.

The following changes are planned for the Wallops Ground Station software. The following modifications have been completed since the NASA 3.1.7 release:

1. Attempt to fix the intermittent late schedule transfers introduced in release 3.1.7 by simplifying the queue check code in status log, improving the authentication modifications in 3.1.7, adding diagnostics to the remote interface code, and adding code to disable status packets when the Master disconnects.

Files Affected:

The files that were developed and/or utilized as part of NASA 3.1.8 are listed in Attachment 1: WGS 3.1.8 FILES.

Hardware Requirements:

N/A

Validation Procedures:

Intermittent Late Schedule Transfers
This problem would occur approximately once every two days at Wallops with release 3.1.7. Connect the SCC to the Master and perform all the actions need for system operation including login, upgrade, load ephemeris, load schedule, retrieve pass results file. Notice that no late schedule transfers occur for a period of 4 continuous days of operation.

Known Bugs or Limitations:

Some open DRs may not be resolved in this release due to equipment constraints.

Installation Procedure:

To install this release, first check to see that there is adequate disk space available by typing bdf. There should be at least 150MB available. If not, back-up to tape and then delete old unused releases in the /home/aaas/releases directory. Create a rel3.1.8 directory in the /home/aaas/releases directory. Copy the file wgs3.1.8.tar.Z in to this directory. Uncompress and untar wgs3.1.8. This will create a bin directory with the new executables.

Copy (cp) the directory **rel3.1.7/etc** to a new rel3.1.8/etc directory. Using the copy (cp) command will automatically create the new directory and populate it with the contents of the old directory. Modify the bin and etc links under /aaas/ to look at the new release directories.

Copy the executables winPrint and pcltrans (if they exist) from rel3.1.7/bin to rel3.1.8/bin. Run a diff between NasaStart in rel3.1.7/bin and rel3.1.8/bin. If there are differences, then use the older version of NasaStart.

Rename the files in the directory 3.1.7/etc for tapelog files, ephtxt.txt and the config directory. Then create links of those files and directory to rel3.1.8/etc/. By creating those links then the configuration files are kept up to date no matter what release of software is activated.

Create a script called sw3.1.7 which will remove the links under /aaas/ for bin and etc and restore them to rel3.1.7/bin and rel3.1.7/etc. Create a script called sw3.1.8 which will remove the links under /aaas/ for bin and etc and link them to rel3.1.8/bin and rel3.1.8/etc.

Activation Procedure:

SCC 3.1.8 activation procedure (must be installed with ATS 3.3 or later):
(1) Select option "Exit" from the "Session" menu. This action will close
the SCC graphical user interface (GUI) and stop all SCC processes.
Processes are stopped after "Stopping rci" and "Removing Stale Message Queues" messages
are displayed. Hit "enter" to display the SCC command prompt, "wgs-11m >".

(2) Type "sw3.1.8" to switch to SCC release 3.1.8. Type "Start" to start
the SCC processes. The SCC GUI main window will show "NASA Version WGS 3.1.8".

Restore Procedure:

SCC 3.1.7 restore procedure (must be installed with ATS 3.3 or later):
(1) Select option "Exit" from the "Session" menu. This action will close
the SCC graphical user interface (GUI) and stop all SCC processes.
Processes are stopped after "Stopping rci", and "Removing Stale Message Queues" messages
are displayed. Hit "enter" to display the SCC command prompt, "wgs-11m >".

(2) Type "sw3.1.7" to switch to SCC release 3.1.7. Type "Start" to start the
SCC processes. The SCC GUI main window will show "NASA Version 3.1.7".

Documentation Affected:

N/A

Comments:

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<u>Approval:</u>

The software modifications described in this release notice has been validated and accepted.

_____   _____
                    NASA WGS Project Manager   Date

<u>SOFTWARE RELEASED:</u>

The software modifications described in this release notice have been completed and released to ground station operations.

_____   _____
                         System Manager   Date

_____   _____
                     NASA Program Monitor   Date

Attachment 1
WGS 3.1.8 Files

The bin Directory:
```
AntennaControlStartup
Displays
Nasa
NasaStart
Start
Stop
authent
configud
control
dpsHndlr
errhandler
eup
executive
file.lst
getNtpSyncInfo
ioh
pcltrans
pedcont
postPassShell
rci
reccon
recsch
resetLANGateway
rmqs
schedmon
snyHndlr
start.awk
start_ntp
status_l
stop.awk
stop_ntp
sup
tapelog
terminal
testexec
time_code_handler
track
uactask
winPrint
```

The etc Directory:

The etc/hpib directory:
```
N/A
```

The etc/config directory:
```
N/A
```

The etc/defaults directory:
```
N/A
```